Beam Power Tube

with an Integral Diode

	9-PIN MINIATURE TYPE PLATE DISSIPATION = 10 WATTS	DARK H	EATER					
_	For Feedback-Stabilized Vertical Deflect Amplifier Applications in Black-and-White and Color TV		r s					
ELECTRICAL CHARACTERISTICS Bogey Values								
	Heater Voltage (AC or DC) Eh Heater Current Ih Direct Interelectrode Capacitances Without external shield	6.3 1.2	V A					
_	Grid No.1 to plate egl-p Input: G1 to (K, G3+ PD, G2, H) . c; Output: P to (K, G3+PD, G2, H) . co	0.32 13.0 6.0	pF pF pF					
	For the following characteristics, see Conditions Amplification Factor							
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	6.5 10.5 4200 35 2.5 -37	kΩ μmho mA mA V					
	Instantaneous Diode-Plate-to- Cathode-Voltage Drop for instantaneous diode-plate current (rb(d)) = 2 mA eb(d)	5	٧					
	Conditions Heater Eb 6.3	6.3	٧					
\	DC Plate Voltage E_b 40 DC Grid-No.3 Voltage E_{c3} 0 DC Grid-No.2 Voltage E_{c2} 120 DC Grid-No.1 Voltage E_{c1} 0	140 0 140 -18	V V V					
MECHANICAL CHARACTERISTICS								
	Operating Position	Unipote eral Se n (77.7 n (71.4 n (22.2 nation T pnation	7 mm) 2 mm) 2 mm) 6-1/2 E9-1)					

TERMINAL DIAGRAM (Bottom View)

B	•
Pin 1-Plate	ш
Pin 2 - Do Not Use	, , , , , , , , , , , , , , , , , , ,
Pin 3-Grid No.2	" ₍₅₎
	(4) (6)
Pin 4 - Heater	
Pin 5 - Heater	⁶ 2 (3) / [¬¬¬ /]
Pin 6 - Grid No.3,	Y 44===1 \
Diode Plate	
Pin 7 - Grid No.1	IC EV LAND
Pin 8 - Grid No. 1	
Pin 9 - Cathode	
Till 3 - Cathode	PK

DESIGN-MAXIMUM RATINGSC

9RA

 $For \ operation \ as \ a \ Feedback-Stabilized \ Vertical-Deflection-Amplifier \ Tube$ in Black-&-White & Color Television Receivers in a 525-line, 30-fra

in Diack-&-unite & Color Television Receive	ers in a 525-line	e, 30-frame sy.	stem					
DC Plate Voltage	Eb	425	٧					
(Absolute-Maximum Value)d	e _{bm}	2000	٧					
DC Grid-No.3 & Diode-Plate Voltage.	$E_{c3}, E_{b(d)}$	+10	٧					
<u>-</u>	-c3,-b(a)	-150	٧					
DC Grid-No.2 (Screen-Grid) Voltage. Peak Negative-Pulse Grid-No.1	E _C 2	330	٧					
(Control-Grid) Voltage Heater-Cathode Voltage	e _{cim}	150	٧					
Peak	_ e _{hkm}	±200	٧					
Average ^e	Ehk(av)	100	٧					
Heater Voltage (AC or DC)	E _h	5.7 to 6.9	٧					
Cathode Current								
Peak	i _{km}	250	mΑ					
Average ^e	lk(av)	70	mΑ					
Average Diode-Plate	"("")							
(& Grid-No.3) Current ^e	$\frac{1}{h(av)}$ (d)		mΑ					
Grid-No.2 Input	lb(av) (d) g2 Pb	2	W					
Plate Dissipation	Ph	10	W					
Envelope Temperature (At hottest	•							
point on envelope surface)	T_{F}	240	o _C					
MAXIMUM CIRCUIT VALUES								
Grid-No.1-Circuit Resistance For grid-No.1-resistor-bias	R _{gl(ckt)}							
operation	-	2.2	$M\Omega$					
For cathode-bias operation	-	2.2	$\mathbf{M}\Omega$					



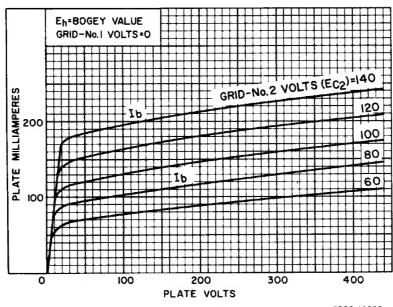
With grid No.3 and diode plate connected to cathode and with grid No.2 connected to plate at socket.
 This value can be measured by a method involving a recurrent waveform such that the Maximum Ratings of the tube will not be exceeded.

c Unless otherwise specified.

d This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 ms.

e Measured with a dc meter.

Typical Characteristics



9205-14660

